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9 September 2013

Proj. No.: 308038-03532
 File Loc.: Fountain Valley

Ms. Ivy Osornio
 Department of Toxic and Substances Control
 5796 Corporate Avenue
 Cypress, California 90630

Dear Ms. Osornio:

**RE: WORK PLAN FOR DEEP VADOSE ZONE SITE INVESTIGATION
 ASSOCIATED PLATING COMPANY, 9636 ANN STREET
 SANTA FE SPRINGS, CALIFORNIA 90670**

INTRODUCTION

This Work Plan outlines the scope of additional site investigation activities at the above referenced Site (**Figure 1**). The DTSC had indicated that characterization of deep vadose zone soil (i.e., site soils below the concrete pad) was needed to understand the vertical nature and extent of on-site VOC contamination so that a meaningful evaluation of risk to human health and the environment can be performed.

OBJECTIVES

The objectives of this site investigation is to investigate the extent of volatile organic compound (VOC) contamination within the soil below the concrete pad, which is encountered at the Site at approximately 7 feet below ground surface. This site investigation will involve collecting soil and soil gas samples at depths below the concrete pad in areas that have known shallow soil contamination and/or show a trend of VOC detections in the shallow intermediate soil depths.



SCOPE OF WORK

The scope of the site investigation will be conducted under the direct supervision of a State of California Professional Geologist or Professional Engineer and will include the following tasks:

- Task 1: Pre-Field Activities;
- Task 2: Borehole Drilling and Soil Sampling;
- Task 3: Soil Gas Sampling;
- Task 4: Data Analysis and Reporting.

Task 1: Pre-Field Activities

WorleyParsons will coordinate with APC, DTSC, our subcontractors and other concerned parties for all proposed investigation activities. The proposed schedule for field activities at the Site will be coordinated with on-Site personnel, as needed. This task includes: borehole permitting; field program set-up; notification of, and coordination with, concerned parties prior to commencing field work; a visual site reconnaissance; marking of borehole locations and utilities at the site, Underground Service Alert notification, and scheduling.

Task 2: Borehole Drilling and Soil Sampling

Boreholes for collecting soil and soil gas samples will be advanced by a drilling subcontractor using either a direct-push limited access rig (LAR) or a track-mounted rig. Proposed boreholes are located in close proximity to previous borehole locations B6 and B-24 as indicated on **Figure 2**. These locations are proposed based on previous detections of VOCs in soil samples. Historical locations and VOC analytical results for soil samples are presented in **Appendix 1**. The locations of boreholes are subject to change due to the presence of above ground and subsurface utilities at the Site and ongoing facility operations. Boreholes will be advanced with a hydraulic hammer using a dual-tubing method. Boreholes will be drilled to a total depth of approximately 36 feet below ground surface (bgs), which falls within the historic range of groundwater levels (34 to 38 feet bgs) at the Site.

Soil samples will be collected at each borehole location directly below the concrete pad and at approximate depths of 10, 15, 25 and 35 feet bgs using a 1 ¾-inch diameter by 2-foot long acetate sleeve. Soil samples will be described for lithologic properties using the Visual-Manual Method (American Standards for Testing and Materials (ASTM) D 2487). All soil samples will be screened in the field for the presence of VOCs. This will be performed by placing a portion of the soil sample in a re-sealable plastic bag. VOC headspace testing will then be conducted inside the plastic bag using a photoionization detector (PID). The results of field VOC headspace testing will be recorded on the field borehole logs. Soil samples will be submitted to Sierra Analytical in Laguna Hills, California and analyzed for VOCs using United States Environmental Protection Agency (USEPA) Method 5035/8260B.



Task 3: Soil Gas Sampling

Soil gas samples will be collected in accordance with the "Active Soil Gas Investigations Advisory" prepared by the DTSC and LARWQCB dated April 2012. Soil gas samples will be collected at each borehole location at approximately 10, 15, 25 and 35 bgs. Temporary soil vapor wells will be installed at each borehole location using a direct push drill rig. A 1.25-inch diameter hollow steel drill rod with a solid stainless steel cone tip will be advanced through the soil to the target depth and retracted.

Temporary vapor wells will be constructed in each of the boreholes using virgin 1/4-inch inner diameter (ID) Polyethylene tubing and a 2-inch stainless steel vapor implant at each discrete sample depth. The borehole annular space surrounding the vapor implant will be filled with washed # 2/12 Monterey sand to serve as a filter pack. In the remainder of the annular space, a seal will be constructed using bentonite chips, which will be hydrated in place and allowed to set.

After probe emplacement and prior to sampling, an equilibrium period of 2 hours will be allowed. Based on previous soil gas investigations performed at the Site, soil gas boreholes will be purged and sampled at a flow rate of approximately 200 millilitres per minute (mL/min). This flow rate was determined to be the appropriate flow rate to ensure samples were representative of subsurface conditions. A leak test will be performed at each borehole location using 1,1-Difluoroethane or an equivalent leak check compound. Soil gas samples will be collected in a glass syringe and submitted for analysis using an on-Site mobile laboratory. All soil gas samples will be analyzed for VOCs in accordance with USEPA Method 8260B.

When soil gas sampling is completed, the sample tubing will be removed from the borehole. After removal, the remaining void will be backfilled with hydrated bentonite chips until slightly below grade. The remaining depression will be completed to match adjacent surface conditions with either asphalt or concrete to flush with grade.

Task 4: Data Analysis and Reporting

Following receipt of data deliverables from Sierra, and completion of data reduction, tabulation and analysis, a brief letter report presenting the analytical results of soil and soil gas samples will be submitted to the DTSC for review and approval. The report will contain a description of site investigation activities, present and discuss soil and soil gas sampling analytical results, and provide conclusions and recommendations based on these results, including a recommendation of AOPC that will require remediation. The report will be signed and stamped by a State of California Professional Geologist or Professional Engineer.

CLOSURE AND LIMITATIONS

This Work Plan has been prepared for the exclusive use of APC as it pertains to the site investigation to be performed at the APC metal plating facility in the City of Santa Fe Springs, California. Our services have been performed using that degree of care and skill ordinarily exercised under similar circumstances by reputable, qualified environmental consultants practicing in this or similar locations. No other warranty, either expressed or implied, is made as to the professional advice included in this work plan. These services were performed consistent with our agreement with our client.



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We trust that this Work Plan satisfies your current requirements and provides suitable documentation for your records. If you have any questions or require further details, please contact the undersigned at any time at 310-547-6356.

Sincerely,
WorleyParsons

A handwritten signature in black ink, appearing to read "Janaka Jayamaha".

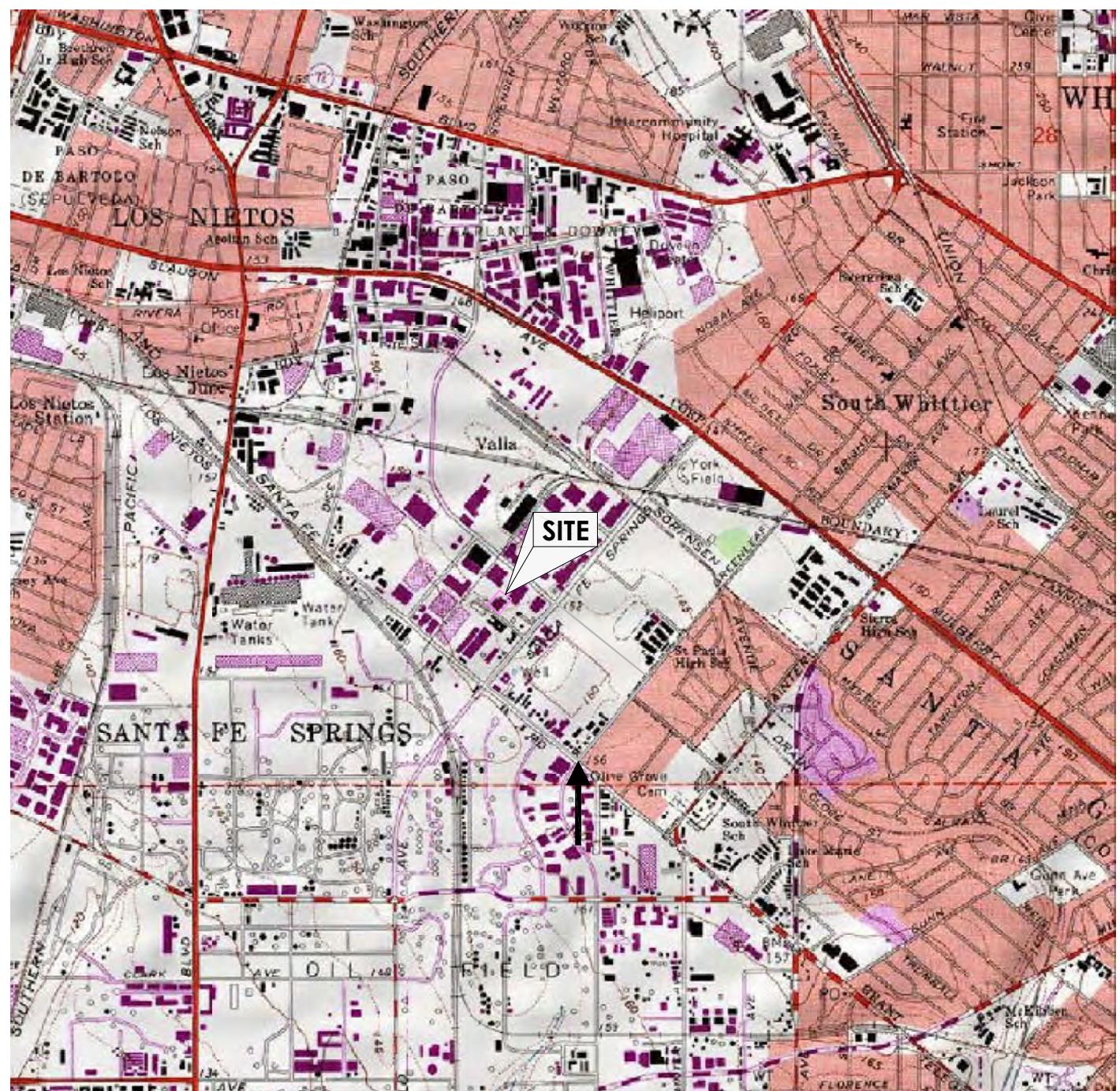
Janaka Jayamaha,
Project Manager



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Figures



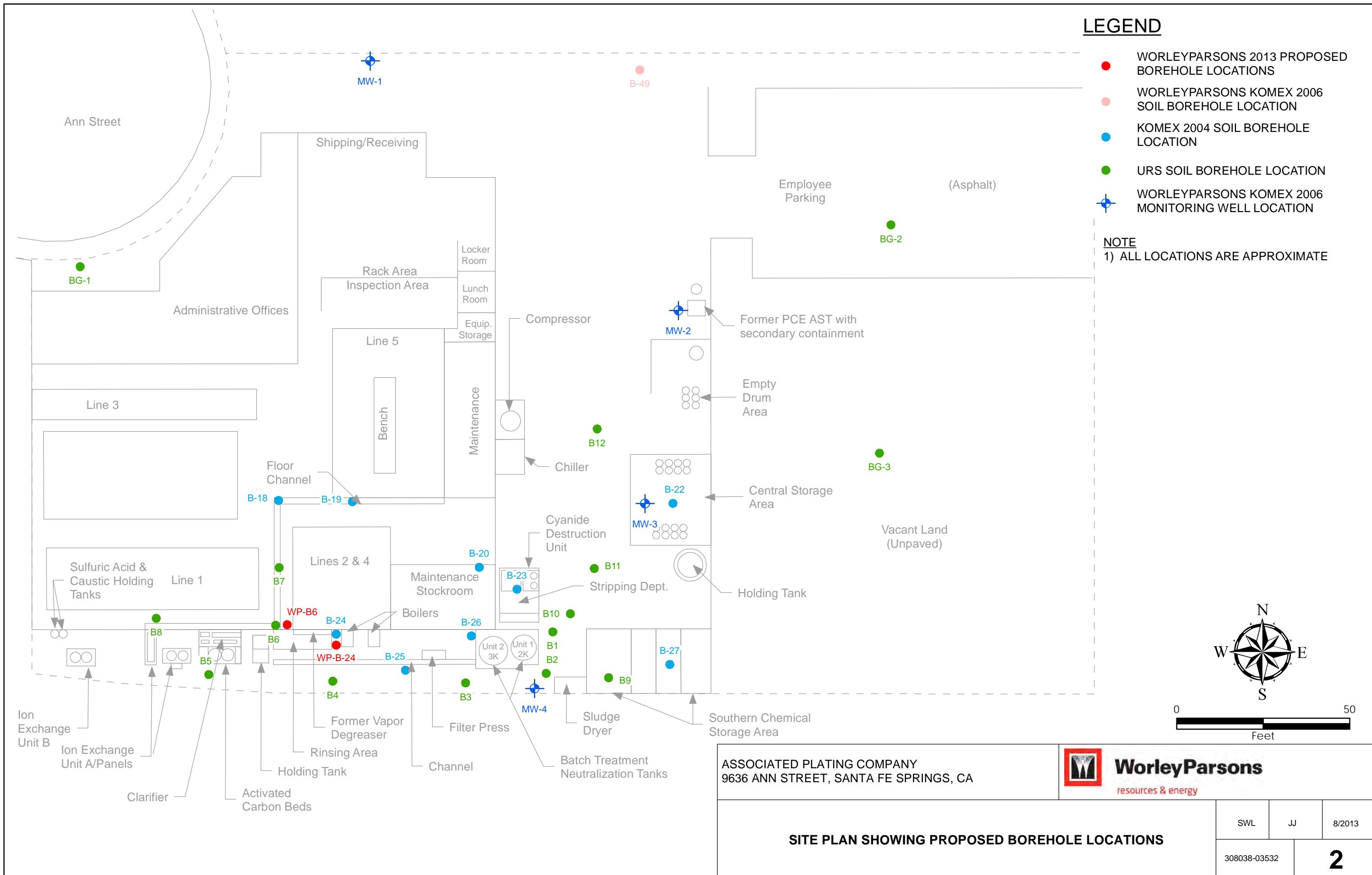
Source: United States Geological Survey, "South Whittier,"
7.5 Minute Quadrangle, 1998



0 2,000

Approximate Scale in Feet

ASSOCIATED PLATING COMPANY 9636 ANN STREET, SANTA FE SPRINGS, CA	 WorleyParsons resources & energy
SITE LOCATION MAP	SWL JJ 6/2011
	308006-00069 1





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Appendix 1

LEGEND

- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
- KOMEX 2004 SOIL BOREHOLE LOCATION
- URS SOIL BOREHOLE LOCATION
- WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION

NOTE

1) ALL LOCATIONS ARE APPROXIMATE

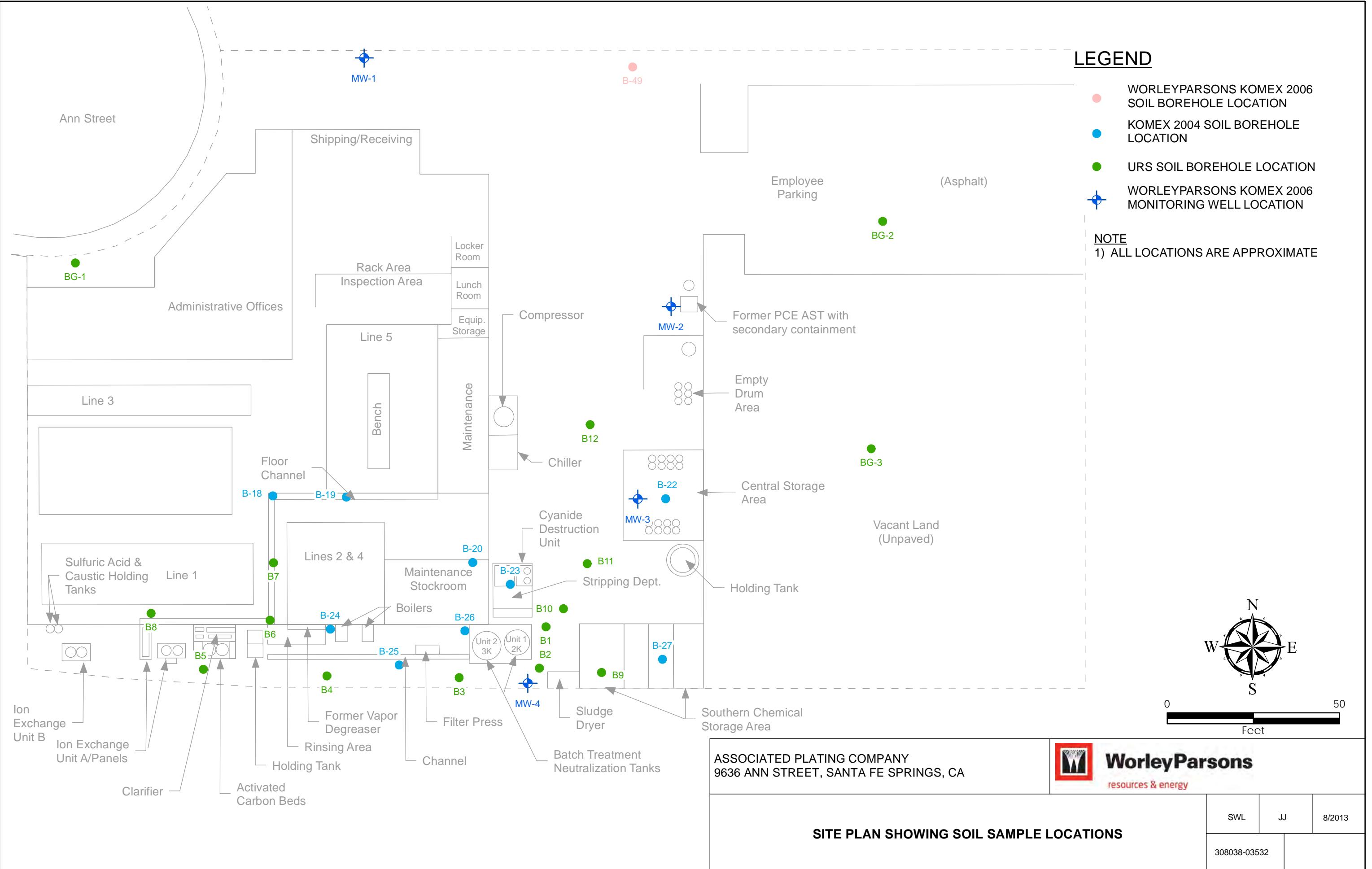


Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	B-18	B-18	B-19	B-19	B-20	B-20	B-20	B-22	B-22	B-22
	Sample ID	B-18-90704-1-4	B-18-90704-2-7	B-19-90704-1-4	B-19-90704-2-7	B-20-90804-1-1	B-20-90804-2-4	B-20-90804-3-7	B-22-90804-1-1	B-22-90804-2-4	B-22-90804-3-7
	Depth (ft bgs)	4	7	4	7	1	4	7	1	4	7
	Date	9/7/2004	9/7/2004	9/7/2004	9/7/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004
1,1,1,2-Tetrachloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,1,1-Trichloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,1,2,2-Tetrachloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,1,2-Trichloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,1-Dichloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	4.9	<4.4	<3.9	<4.1	<5.0
1,1-Dichloroethene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,1-Dichloropropylene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2,3-Trichlorobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2,3-Trichloropropane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2,4-Trichlorobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2,4-Trimethylbenzene	µg/kg	<8.3	6,700	27	18	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2-Dibromo-3-Chloropropane (DBCP)	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2-Dibromoethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2-Dichlorobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2-Dichloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,2-Dichloropropane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,3,5-Trimethylbenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,3-Dichloropropane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
1,4-Dichlorobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
2,2-Dichloropropane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
2-Chlorotoluene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
2-Phenylbutane	µg/kg	<8.3	3,700	4.6	<4.0	<3.7	29	6.4	<3.9	<4.1	<5.0
4-Chlorotoluene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Benzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Bromobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Bromodichloromethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Bromomethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Butylbenzene,n-	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Carbon Tetrachloride	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
CFC-11	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
CFC-12	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Chlorobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Chlorobromomethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Chlorodibromomethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Chloroethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Chloroform	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Chloromethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Cis-1,2-Dichloroethene (cis 1,2-DCE)	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	13	<4.4	210	800	240

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	B-18	B-18	B-19	B-19	B-20	B-20	B-20	B-22	B-22	B-22
	Sample ID	B-18-90704-1-4	B-18-90704-2-7	B-19-90704-1-4	B-19-90704-2-7	B-20-90804-1-1	B-20-90804-2-4	B-20-90804-3-7	B-22-90804-1-1	B-22-90804-2-4	B-22-90804-3-7
	Depth (ft bgs)	4	7	4	7	1	4	7	1	4	7
	Date	9/7/2004	9/7/2004	9/7/2004	9/7/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004
Cis-1,3-Dichloropropene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Cymene	µg/kg	<8.3	2,400	5.2	<4.0	<3.7	7.4	<4.4	<3.9	<4.1	<5.0
Dibromomethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Dichloromethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Diisopropyl Ether	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Ethylbenzene	µg/kg	<8.3	7,900	13	6.7	<3.7	200	<4.4	<3.9	<4.1	<5.0
Ethyl-tert-Butyl Ether	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Hexachloro-1,3-Butadiene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Isopropylbenzene	µg/kg	<8.3	5,100	7.0	5.5	<3.7	87	15	<3.9	<4.1	<5.0
M-Dichlorobenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Methyl-tert-Butyl Ether	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Naphthalene	µg/kg	<8.3	30,000	69	37	<3.7	350	100	<3.9	<4.1	110
O-Xylene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Xylene, P-, M-	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Propylbenzene,n-	µg/kg	<8.3	8,100	8.7	<4.0	<3.7	100	20	<3.9	<4.1	<5.0
Styrene (Monomer)	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Tert-Amyl-Methyl Ether	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Tert-Butyl Alcohol	µg/kg	<41	<2900	<20	<20	<18	<19	<22	<19	<20	<25
Tert-Butylbenzene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Tetrachloroethylene (PCE)	µg/kg	140	<570	71	<4.0	<3.7	<3.8	<4.4	1,900	110	<5.0
Toluene	µg/kg	<8.3	<570	5.6	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Trans-1,2-Dichloroethene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	5.8	<4.4	74	400	220
Trans-1,3-Dichloropropene	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Tribromomethane	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0
Trichloroethene (TCE)	µg/kg	70	<570	8.7	<4.0	<3.7	6.7	<4.4	210	290	<5.0
Vinyl Chloride (VC)	µg/kg	<8.3	<570	<3.9	<4.0	<3.7	<3.8	<4.4	<3.9	<4.1	<5.0

Abbreviations:

VOCs = Volatile organic compounds (halogenated). Analyzed using EPA Method 8260B.

ft bgs = feet below ground surface

µg/kg = micrograms per kilogram

< 1.0 = compound not detected above the laboratory specified detection limits

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	B-23	B-23	B-23	B-24	B-24	B-24	B-25	B-25	B-25
	Sample ID	B-23-90804-1-1	B-23-90804-2-4	B-23-90804-3-7	B-24-90804-1-1	B-24-90804-2-4	B-24-90804-3-7	B-25-90804-1-1	B-25-90804-2-4	B-25-90804-3-7
	Depth (ft bgs)	1	4	7	1	4	7	1	4	7
	Date	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004
1,1,1,2-Tetrachloroethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,1,1-Trichloroethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,1,2,2-Tetrachloroethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,1,2-Trichloroethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,1-Dichloroethane	µg/kg	<4.1	<4.0	<4.0	5.0	<4.3	<6.0	<4.0	<5.0	<4.2
1,1-Dichloroethene	µg/kg	<4.1	<4.0	<4.0	6.7	<4.3	<6.0	<4.0	<5.0	<4.2
1,1-Dichloropropylene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2,3-Trichlorobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2,3-Trichloropropane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2,4-Trichlorobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2,4-Trimethylbenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2-Dibromo-3-Chloropropane (DBCP)	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2-Dibromoethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2-Dichlorobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2-Dichloroethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,2-Dichloropropane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,3,5-Trimethylbenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,3-Dichloropropane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
1,4-Dichlorobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
2,2-Dichloropropane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
2-Chlorotoluene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
2-Phenylbutane	µg/kg	<4.1	22	20	<3.8	4.4	<6.0	<4.0	14	6.0
4-Chlorotoluene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Benzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Bromobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Bromodichloromethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Bromomethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Butylbenzene,n-	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Carbon Tetrachloride	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
CFC-11	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
CFC-12	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Chlorobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Chlorobromomethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Chlorodibromomethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Chloroethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Chloroform	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Chloromethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Cis-1,2-Dichloroethene (cis 1,2-DCE)	µg/kg	24	42	9.3	3,100	5,500	400	<4.0	<5.0	<4.2

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	B-23	B-23	B-23	B-24	B-24	B-24	B-25	B-25	B-25
	Sample ID	B-23-90804-1-1	B-23-90804-2-4	B-23-90804-3-7	B-24-90804-1-1	B-24-90804-2-4	B-24-90804-3-7	B-25-90804-1-1	B-25-90804-2-4	B-25-90804-3-7
	Depth (ft bgs)	1	4	7	1	4	7	1	4	7
	Date	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004
Cis-1,3-Dichloropropene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Cymene	µg/kg	<4.1	8.2	4.1	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Dibromomethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Dichloromethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Diisopropyl Ether	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Ethylbenzene	µg/kg	<4.1	43	<4.0	<3.8	11	7.4	<4.0	<5.0	<4.2
Ethyl-tert-Butyl Ether	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Hexachloro-1,3-Butadiene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Isopropylbenzene	µg/kg	<4.1	26	58	<3.8	5.0	<6.0	<4.0	36	9.2
M-Dichlorobenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Methyl-tert-Butyl Ether	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Naphthalene	µg/kg	<4.1	150	240	7.2	<4.3	17	<4.0	180	<4.2
O-Xylene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Xylene, P-, M-	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Propylbenzene,n-	µg/kg	<4.1	26	66	<3.8	6.2	<6.0	<4.0	44	7.8
Styrene (Monomer)	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Tert-Amyl-Methyl Ether	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Tert-Butyl Alcohol	µg/kg	<21	<20	<20	<19	<22	41	<20	<25	<21
Tert-Butylbenzene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Tetrachloroethene (PCE)	µg/kg	<4.1	<4.0	<4.0	1,900	<4.3	150	<4.0	<5.0	<4.2
Toluene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Trans-1,2-Dichloroethene	µg/kg	5.5	16	<4.0	380	240	150	<4.0	<5.0	<4.2
Trans-1,3-Dichloropropene	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Tribromomethane	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2
Trichloroethene (TCE)	µg/kg	<4.1	<4.0	<4.0	1,900	11	32	<4.0	<5.0	<4.2
Vinyl Chloride (VC)	µg/kg	<4.1	<4.0	<4.0	<3.8	<4.3	<6.0	<4.0	<5.0	<4.2

Abbreviations:

VOCs = Volatile organic compounds (halogenated). Analyzed usin

ft bgs = feet below ground surface

µg/kg = micrograms per kilogram

< 1.0 = compound not detected above the laboratory specified dete

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	B-26	B-26	B-26	B-27	B-27	B-27	MW-1	MW-1	MW-1
	Sample ID	B-26-90804-1-1	B-26-90804-2-4	B-26-90804-3-7	B-27-90804-1-1	B-27-90804-2-4	B-27-90804-3-7	MW1-4506-1-5	MW1-4506-2-10	MW1-4506-3-15
	Depth (ft bgs)	1	4	7	1	4	7	5	10	15
	Date	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	4/5/2006	4/5/2006	4/5/2006
1,1,1,2-Tetrachloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,1,1-Trichloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,1,2,2-Tetrachloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,1,2-Trichloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,1-Dichloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,1-Dichloroethene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,1-Dichloropropylene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2,3-Trichlorobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2,3-Trichloropropane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2,4-Trichlorobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2,4-Trimethylbenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2-Dibromo-3-Chloropropane (DBCP)	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2-Dibromoethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2-Dichlorobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2-Dichloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,2-Dichloropropane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,3,5-Trimethylbenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,3-Dichloropropane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
1,4-Dichlorobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
2,2-Dichloropropane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
2-Chlorotoluene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
2-Phenylbutane	µg/kg	<4.0	<4.1	9.0	<4.3	<3.9	4.2	<4.5	<4.5	<4.5
4-Chlorotoluene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Benzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Bromobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Bromodichloromethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Bromomethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Butylbenzene,n-	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Carbon Tetrachloride	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
CFC-11	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
CFC-12	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Chlorobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Chlorobromomethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Chlorodibromomethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Chloroethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Chloroform	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Chloromethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Cis-1,2-Dichloroethene (cis 1,2-DCE)	µg/kg	<4.0	<4.1	<4.1	65	430	11	<4.5	<4.5	<4.5

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	B-26	B-26	B-26	B-27	B-27	B-27	MW-1	MW-1	MW-1
	Sample ID	B-26-90804-1-1	B-26-90804-2-4	B-26-90804-3-7	B-27-90804-1-1	B-27-90804-2-4	B-27-90804-3-7	MW1-4506-1-5	MW1-4506-2-10	MW1-4506-3-15
	Depth (ft bgs)	1	4	7	1	4	7	5	10	15
	Date	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	9/8/2004	4/5/2006	4/5/2006	4/5/2006
Cis-1,3-Dichloropropene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Cymene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Dibromomethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Dichloromethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Diisopropyl Ether	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	-	-	-
Ethylbenzene	µg/kg	<4.0	4.4	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Ethyl-tert-Butyl Ether	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	-	-	-
Hexachloro-1,3-Butadiene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Isopropylbenzene	µg/kg	<4.0	5.7	31	<4.3	<3.9	11	<4.5	<4.5	<4.5
M-Dichlorobenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Methyl-tert-Butyl Ether	µg/kg	<4.0	<4.1	<4.1	<4.3	5.2	5.1	<4.5	<4.5	<4.5
Naphthalene	µg/kg	<4.0	26	120	<4.3	7.9	70	<4.5	<4.5	<4.5
O-Xylene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Xylene, P-, M-	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Propylbenzene,n-	µg/kg	<4.0	6.4	35	<4.3	<3.9	14	<4.5	<4.5	<4.5
Styrene (Monomer)	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Tert-Amyl-Methyl Ether	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	-	-	-
Tert-Butyl Alcohol	µg/kg	<20	<20	<20	<22	<20	<21	-	-	-
Tert-Butylbenzene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Tetrachloroethylene (PCE)	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Toluene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Trans-1,2-Dichloroethene	µg/kg	<4.0	<4.1	<4.1	<4.3	67	<4.1	<4.5	<4.5	<4.5
Trans-1,3-Dichloropropene	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Tribromomethane	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5
Trichloroethylene (TCE)	µg/kg	<4.0	<4.1	<4.1	13	<3.9	<4.1	<4.5	<4.5	<4.5
Vinyl Chloride (VC)	µg/kg	<4.0	<4.1	<4.1	<4.3	<3.9	<4.1	<4.5	<4.5	<4.5

Abbreviations:

VOCs = Volatile organic compounds (halogenated). Analyzed usin

ft bgs = feet below ground surface

µg/kg = micrograms per kilogram

< 1.0 = compound not detected above the laboratory specified dete

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3
	Sample ID	MW1-4506-4-25	MW1-4506-5-35	MW2-4506-1-5	MW2-4506-2-10	MW2-4506-3-15	MW2-4506-4-25	MW2-4506-5-35	MW3-4606-1-5	MW3-4606-2-15
	Depth (ft bgs)	25	35	5	10	15	25	35	5	15
	Date	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/6/2006	4/6/2006
1,1,1,2-Tetrachloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,1,1-Trichloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,1,2,2-Tetrachloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,1,2-Trichloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,1-Dichloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,1-Dichloroethene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,1-Dichloropropylene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2,3-Trichlorobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2,3-Trichloropropane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2,4-Trichlorobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2,4-Trimethylbenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2-Dibromo-3-Chloropropane (DBCP)	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2-Dibromoethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2-Dichlorobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2-Dichloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,2-Dichloropropane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,3,5-Trimethylbenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,3-Dichloropropane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
1,4-Dichlorobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
2,2-Dichloropropane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
2-Chlorotoluene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
2-Phenylbutane	µg/kg	6.5	13	<4.0	<4.1	<6.0	48	94	16	<3.8
4-Chlorotoluene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Benzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Bromobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Bromodichloromethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Bromomethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Butylbenzene,n-	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	9.2	<5.0	3.8	<3.8
Carbon Tetrachloride	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
CFC-11	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
CFC-12	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Chlorobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Chlorobromomethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Chlorodibromomethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Chloroethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Chloroform	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Chloromethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Cis-1,2-Dichloroethene (cis 1,2-DCE)	µg/kg	<4.4	<4.4	4.7	<4.1	<6.0	<5.0	<5.0	42	12

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	MW-1	MW-1	MW-2	MW-2	MW-2	MW-2	MW-2	MW-3	MW-3
	Sample ID	MW1-4506-4-25	MW1-4506-5-35	MW2-4506-1-5	MW2-4506-2-10	MW2-4506-3-15	MW2-4506-4-25	MW2-4506-5-35	MW3-4606-1-5	MW3-4606-2-15
	Depth (ft bgs)	25	35	5	10	15	25	35	5	15
	Date	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/5/2006	4/6/2006	4/6/2006
Cis-1,3-Dichloropropene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Cymene	µg/kg	<4.4	11	<4.0	<4.1	<6.0	9.0	20	<3.8	<3.8
Dibromomethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Dichloromethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	10	4.7
Diisopropyl Ether	µg/kg	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	19	<5.0	14	<3.8
Ethyl-tert-Butyl Ether	µg/kg	-	-	-	-	-	-	-	-	-
Hexachloro-1,3-Butadiene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Isopropylbenzene	µg/kg	<4.4	14	<4.0	<4.1	<6.0	110	160	21	4.4
M-Dichlorobenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Methyl-tert-Butyl Ether	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Naphthalene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
O-Xylene	µg/kg	87	14	<4.0	<4.1	<6.0	320	11	240	26
Xylene, P-, M-	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Propylbenzene,n-	µg/kg	<4.4	7.6	<4.0	<4.1	<6.0	98	81	28	6.1
Styrene (Monomer)	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Tert-Amyl-Methyl Ether	µg/kg	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	µg/kg	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	9.2	<3.8	<3.8
Tetrachloroethylene (PCE)	µg/kg	<4.4	<4.4	46	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Toluene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Trans-1,2-Dichloroethene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Trans-1,3-Dichloropropene	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Tribromomethane	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8
Trichloroethylene (TCE)	µg/kg	<4.4	<4.4	7.6	<4.1	<6.0	<5.0	<5.0	<3.8	4.0
Vinyl Chloride (VC)	µg/kg	<4.4	<4.4	<4.0	<4.1	<6.0	<5.0	<5.0	<3.8	<3.8

Abbreviations:

VOCs = Volatile organic compounds (halogenated). Analyzed usin

ft bgs = feet below ground surface

µg/kg = micrograms per kilogram

< 1.0 = compound not detected above the laboratory specified date



Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	B-49	B-49	B-49
	Sample ID	MW3-4606-3-25	MW3-4606-4-35	MW4-4606-1-10	MW4-4606-2-15	MW4-4606-3-25	MW4-4606-4-35	B49-41706-1-1	B49-41706-2-4	B49-41706-3-7
	Depth (ft bgs)	25	35	10	15	25	35	1	4	7
	Date	4/6/2006	4/6/2006	4/6/2006	4/6/2006	4/6/2006	4/6/2006	4/17/2006	4/17/2006	4/17/2006
1,1,1,2-Tetrachloroethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,1,2-Trichloroethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,1-Dichloroethane	µg/kg	<5.0	<250	<4.2	14	<4.3	<4.2	<5.0	<5.0	<5.0
1,1-Dichloroethene	µg/kg	<5.0	<250	<4.2	7.4	<4.3	<4.2	<5.0	<5.0	<5.0
1,1-Dichloropropylene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2,3-Trichloropropane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	µg/kg	130	1,500	<4.2	<4.3	10	4.8	<5.0	<5.0	<5.0
1,2-Dibromo-3-Chloropropane (DBCP)	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2-Dibromoethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2-Dichloroethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,2-Dichloropropane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,3,5-Trimethylbenzene	µg/kg	5.3	<250	<4.2	<4.3	120	<4.2	<5.0	<5.0	<5.0
1,3-Dichloropropane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
2,2-Dichloropropane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
2-Chlorotoluene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
2-Phenylbutane	µg/kg	21	1,400	47	29	14	78	<5.0	<5.0	<5.0
4-Chlorotoluene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Benzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	5.5	<5.0	<5.0	<5.0
Bromobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Bromodichloromethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Bromomethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Butylbenzene,n-	µg/kg	<5.0	<250	8.1	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Carbon Tetrachloride	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
CFC-11	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
CFC-12	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Chlorobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Chlorobromomethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Chlorodibromomethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Chloroethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Chloroform	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Chloromethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Cis-1,2-Dichloroethene (cis 1,2-DCE)	µg/kg	<5.0	<250	69	400	<4.3	6.4	<5.0	<5.0	<5.0

Table 1
VOC Soil Results
Associated Plating Company

Chemical Name	Location	MW-3	MW-3	MW-4	MW-4	MW-4	MW-4	B-49	B-49	B-49
	Sample ID	MW3-4606-3-25	MW3-4606-4-35	MW4-4606-1-10	MW4-4606-2-15	MW4-4606-3-25	MW4-4606-4-35	B49-41706-1-1	B49-41706-2-4	B49-41706-3-7
	Depth (ft bgs)	25	35	10	15	25	35	1	4	7
	Date	4/6/2006	4/6/2006	4/6/2006	4/6/2006	4/6/2006	4/6/2006	4/17/2006	4/17/2006	4/17/2006
Cis-1,3-Dichloropropene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Cymene	µg/kg	21	280	4.2	<4.3	23	<4.2	<5.0	<5.0	<5.0
Dibromomethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Dichloromethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Diisopropyl Ether	µg/kg	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/kg	6.9	<250	2,600	150	35	41	<5.0	<5.0	<5.0
Ethyl-tert-Butyl Ether	µg/kg	-	-	-	-	-	-	-	-	-
Hexachloro-1,3-Butadiene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Isopropylbenzene	µg/kg	31	1,700	110	73	26	160	<5.0	<5.0	<5.0
M-Dichlorobenzene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Methyl-tert-Butyl Ether	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Naphthalene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
O-Xylene	µg/kg	120	6,000	6.2	28	63	4.4	<5.0	<5.0	<5.0
Xylene, P-, M-	µg/kg	6.6	<250	<4.2	<4.3	66	<4.2	<5.0	<5.0	<5.0
Propylbenzene,n-	µg/kg	42	2,100	130	92	21	130	<5.0	<5.0	<5.0
Styrene (Monomer)	µg/kg	<5.0	<250	4.4	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Tert-Amyl-Methyl Ether	µg/kg	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	µg/kg	-	-	-	-	-	-	-	-	-
Tert-Butylbenzene	µg/kg	<5.0	<250	4.5	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	µg/kg	<5.0	<250	4,200	6,700	25	720	64	6.2	<5.0
Toluene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Trans-1,2-Dichloroethene	µg/kg	<5.0	<250	42	360	<4.3	5.8	<5.0	<5.0	<5.0
Trans-1,3-Dichloropropene	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Tribromomethane	µg/kg	<5.0	<250	<4.2	<4.3	<4.3	<4.2	<5.0	<5.0	<5.0
Trichloroethene (TCE)	µg/kg	<5.0	<250	89	260	<4.3	22	7.9	<5.0	<5.0
Vinyl Chloride (VC)	µg/kg	<5.0	<250	73	470	<4.3	<4.2	<5.0	<5.0	<5.0

Abbreviations:

VOCs = Volatile organic compounds (halogenated). Analyzed usin

ft bgs = feet below ground surface

µg/kg = micrograms per kilogram

< 1.0 = compound not detected above the laboratory specified dete

+C1425.001

URS

SUBSURFACE INVESTIGATION REPORT
ASSOCIATED PLATING COMPANY, INC.
9636 ANN STREET
SANTA FE SPRINGS, CALIFORNIA 90670

APRIL 23, 2002

URS

911 WILSHIRE BLVD
SUITE 800
LOS ANGELES, CALIFORNIA 90017
(213) 996-2200

Table 2
EPA 8260B - CVOCs
Soil Analytical Results
Associated Plating
Santa Fe Springs, CA

Boring	Sample Depth	PCE	TCE	1,1,2,2-TTCA	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	1,1-DCA	VC	BDCM	Chloroform
B1	0.5	35000	1500	ND	980	220	ND	ND	18	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B2	0.5	4100	2800	ND	820	240	16	ND	110	ND	ND
	5	85	12	ND	210	320	ND	30	2000	ND	ND
B3	1.5	ND	ND	17	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND
B4	1	ND	ND	ND	310	47	ND	ND	ND	ND	ND
	.5	ND	ND	ND	100	13	ND	ND	ND	ND	ND
B5	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B55 ^x	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6	0.5	10	20	ND	4200	1100	50	120	20	ND	ND
	5	2600	4600	ND	4100	880	90	160	20	ND	ND
B7	3	16	7	ND	ND	ND	ND	ND	ND	ND	ND
	5	9	ND	ND	ND	ND	ND	ND	ND	ND	ND
B8	0.5	56	7	ND	ND	ND	ND	ND	ND	ND	ND
	5	8	7	ND	6	ND	ND	ND	ND	ND	ND
B9	0.5	1100	2200	ND	880	400	ND	ND	ND	ND	ND
	5	8	ND	ND	450	110	ND	ND	ND	ND	ND
B10	0.5	ND	96	ND	250	22	ND	ND	ND	ND	ND
B210 ^y	0.5	ND	150	ND	350	28	ND	ND	ND	6.1	6.0
	5	ND	55	ND	280	39	ND	18	300	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	20	ND	ND	ND	6.1	ND	ND	ND	7.6	ND	ND
	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B11	0.5	ND	9.1	ND	72	5.2	ND	ND	54	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	67	ND	ND
	7	ND	ND	ND	47	ND	ND	ND	ND	ND	ND
B12	0.5	430	72	ND	22	ND	ND	ND	ND	ND	ND
B212 ^x	0.5	440	63	ND	20	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	11	420	150	ND	ND	ND	ND
	7	ND	ND	ND	300	150	ND	ND	ND	ND	ND
BG1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG2	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG3	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

¹ all sample depths in feet below ground surface, ² denotes duplicate of 1-foot sample collected from B5, ³ denotes duplicate of 0.5-foot sample collected from B10,

⁴ denotes duplicate of 0.5-foot sample collected from B12

PCE=Tetrachloroethene, TCE=Trichloroethene, TTCA=Tetrachloroethane, DCE=Dichloroethene, DCA=Dichloroethane, VC=Vinyl Chloride,

BDCM=Bromodichloromethane

All sample results in micrograms/kilogram (ug/kg). ND denotes analyte not detected about the laboratory reporting limit

Table 4
EPA 8260B - BTEX +
Soil Analytical Results
Associated Plating
Santa Fe Springs, CA

Boring	Sample Depth ¹	Benzene	n-Butyl-benzene	sec-Butyl-benzene	tert-Butyl-benzene	Ethyl-benzene	Isopropyl-benzene	p-Isopropyl-toluene	Naphthalene	m-Propylbenzene	Toluene	m-TMB	p-TMB	m-Xylene	p-Xylene	m,p-Xylene
B1	0.5	ND	9	34	6	ND	17	ND	9	14	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	5	ND	ND	30	6	ND	ND	ND	ND	ND	ND
B2	0.5	ND	ND	29	ND	ND	14	ND	ND	16	45	ND	ND	ND	ND	ND
	5	ND	ND	40	ND	290	96	ND	400	150	ND	ND	ND	ND	ND	ND
B3	1.5	ND	9	59	6.6	ND	73	ND	270	130	ND	ND	ND	ND	ND	ND
	5	ND	ND	8.5	ND	ND	21	ND	68	26	ND	ND	ND	ND	ND	ND
B4	1	ND	ND	25	ND	120	48	ND	310	73	ND	ND	ND	ND	ND	ND
	5	ND	ND	17	ND	36	18	ND	150	20	ND	ND	ND	ND	ND	ND
B5	1	ND	13	25	ND	15	12	13	94	14	ND	34	21	ND	ND	ND
	5	ND	ND	21	ND	12	11	8.7	70	10	ND	24	7.9	ND	ND	ND
B55 ²	1	ND	9.8	21	ND	12	11	ND	ND	52	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B6	0.5	5	43	ND	ND	ND	130	140	58	39	ND	ND	ND	ND	ND	ND
	5	ND	ND	24	ND	120	31	ND	78	40	23	10	22	7	15	ND
B7	3	ND	ND	ND	ND	ND	ND	ND	71	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	23	ND	7	17	ND	25	13	ND	ND	ND	ND	ND	ND
B8	0.5	ND	ND	18	ND	ND	10	ND	10	5	ND	ND	ND	ND	ND	ND
	5	ND	ND	40	100	ND	460	170	ND	1200	300	ND	ND	ND	ND	ND
B9	0.5	ND	24	31	ND	ND	20	20	ND	31	ND	32	100	ND	ND	ND
	5	ND	ND	31	ND	79	74	ND	360	120	ND	ND	ND	ND	ND	ND
B10	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B210 ³	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	14	ND	78	31	ND	92	45	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND
	20	ND	20	26	ND	21	41	36	300	51	ND	95	410 ⁴	10	230	ND
B11	30	ND	25	100	ND	ND	210	ND	780	270	ND	ND	ND	ND	ND	ND
	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7	12	ND	25	ND	79	75	ND	410	110	ND	ND	ND	ND	ND	ND
B12	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B212 ⁵	0.5	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND
	5	ND	6.9	12	ND	7.7	12	ND	140	12	ND	ND	ND	ND	ND	ND
	7	ND	35	57	8.6	24	51	16	400	57	ND	ND	ND	ND	ND	ND
BG1	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG2	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG3	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	29	ND	ND	11	ND	77	14	ND	ND	ND	ND	ND	ND

¹ all sample depths in feet below ground surface, ² denotes duplicate of 1-foot sample collected from B5, ³ denotes duplicate of 0.5-foot sample collected from B10,

⁴ denotes duplicate of 0.5-foot sample collected from B12

TMB=Trimethylbenzene

All sample results in micrograms/kilogram (ug/kg). ND denotes analyte not detected about the laboratory reporting limit